Constant Hoppers and Number Sentences

Homework

Use the *Number Line 0–30* page in the Reference section of the *Student Guide* to help you complete each table.

1. A +3 hopper starts at 0.

Number of Hops	Hop Size	Lands On	Number Sentence
1	3		
2	3	6	$2 \times 3 = 6$
3	3		
4	3		
5	3		

2. A +5 hopper starts at 0.

Number of Hops	Hop Size	Lands On	Number Sentence
1	5		
2	5		
3	5		
4	5		
5	5		

3. A constant hopper starts at 0.

Number of Hops	Hop Size	Lands On	Number Sentence
1		4	
2		8	
3		12	
4		16	
5		20	

4. A +3 hopper starts on 2.

Number of Hops	Hop Size	Lands On	Number Sentence
1	3	5	$2 + 3 \times 1 = 5$
2	3		
3	3		
4	3		
5	3		

5. A –2 hopper starts on 12.

Number of Hops	Hop Size	Lands On	Number Sentence
1	– 2	10	$12 - 1 \times 2 = 10$
2	– 2		
3	– 2		
4	– 2		
5	– 2		

6. Describe any patterns you see in the rows and columns in the tables in Questions 1–3.

7. How are the number sentences in Question 1–3 different from those in Questions 4–5?